## SCHEDULE OF PROPOSAL ITEMS

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## GENERAL NOTES

#### CRITERIA

THE CONTRACTOR SHALL BE GOVERNED BY THE STANDARDS AND REQUIREMENTS OF THE FOLLOWING PUBLICATIONS. EXCEPT AS MODIFIED BY THE SPECIAL PROVISIONS OF THIS CONTRACT.

### **DESIGN**

A A S H T O - "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", 1988 EDITION AND SUBSEQUENT REVISIONS. (M.U.T.C.D.)

A A S H T O - "HIGHWAY SAFETY DESIGN AND OPERATIONS GUIDE" -1997

A A S H T O - "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS LUMINAIRES AND TRAFFIC SIGNALS", 1994 EDITION,

MARYLAND STATE HIGHWAY ADMINISTRATION - "MARYLAND SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES." - 1997 EDITION AND SUBSEQUENT REVISIONS.

#### MATERIALS AND CONSTRUCTION

MARYLAND STATE HIGHWAY ADMINISTRATION - \*STANDARD SPECIFICATIONS FOR CONSTRUCTION & MATERIALS". 1982 EDITION AND SUBSEQUENT SUPPLEMENTS.

## DESIGN WIND

65 MPH - WOOD SUPPORTS

DISTRICT 1, 2 & 5 90 MPH - ALL OTHER STRUCTURES

60 MPH - WOOD SUPPORTS

ALL OTHER REMAINING DISTRICTS 80 MPH - ALL OTHER STRUCTURES

#### DESIGN STRESS

SOIL BEARING PRESSURE - S = 3.000 P.S.F. (ASSUMED) SEE MATERIAL & CONSTRUCTION ABOVE AND SPECIAL PROVISIONS FOR DESIGN STRESSES FOR STRUCTURAL STEEL, ALUMINUM, REINFORCING STEEL AND CONCRETE.

#### CHAMFER

ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" X 3/4" CHAMFER

#### CLASSIFICATION OF SIGNS

SIGNS ARE DIVIDED INTO TWO (2) GENERAL CATEGORIES.

1 GUIDE SIGNS

A) STRUCTURAL TYPES

OH - OVERHEAD

C - CANTILEVER GM - GROUND MOUNT, BREAKAWAY

OR NON-BREAKWAY

BM - BRIDGE MOUNTED

2 STANDARD SIGNS (REGULATORY, WARNING, ETC.) A) STRUCTURAL TYPES WOOD SUPPORTS

GALVANIZED STEEL 'U' CHANNEL

B) PANELS

MATERIAL - EXTRUDED ALUMINUM COPY - DEMOUNTABLE

1) BUTTON REFLECTOR (REVISIONS TO EXISTING SIGNS)

2) HIGH INTENSITY (NEW SIGNS AND REVISIONS TO EXISTING SIGNS)

**URS Greiner Woodward Clyde** 

B) PANELS MATERIAL - SHEET ALUMINUM

COPY - NON-DEMOUNTABLE

### IDENTIFICATION OF SIGNS AND PANELS

#### GUIDE SIGNS

EACH GUIDE SIGN IS IDENTIFIED BY A SIGN NUMBER ON THE PLANS AND IN THE TABULATIONS. PANELS ON GUIDE SIGNS ARE IDENTIFIED WITH A NUMBER AND WHERE VARIATIONS OCCUR. A LOWER CASE LETTER.

#### STANDARD SIGNS

STANDARD SIGNS ARE IDENTIFIED BY PANEL NUMBERS AND ARE CLASSIFIED AS FOLLOWS

R - REGULATORY W - WARNING

M - ROUTE MARKERS AND ACCESSORIES

D - DESTINATION AND MILEAGE PANELS

S - SCHOOL

PANELS SHALL BE DESIGNATED TO AGREE WITH MARYLAND STANDARD SIGN BOOK.

#### PANEL LAYOUT AND ALPHABETS

PRIOR APPROVAL OF THE ENGINEER.

1. GUIDE SIGN PANEL LAYOUTS ARE BASED ON THE A.A.S.H.T.O. MANUALS NOTED ABOVE. 2. STANDARD SIGN PANEL LAYOUTS ARE BASED ON THE M.U.T.C.D. WITH SPECIFICATIONS DETAILED IN THE MARYLAND STATE HIGHWAY ADMINISTRATION PUBLICATION, "STANDARD SIGN BOOK", AVAILABLE THROUGH THE SHA CASHIER'S OFFICE.

#### REFLECTORIZATION

BACKGROUNDS, BORDERS, TEXTS AND ALL OTHER ELEMENTS OF SIGN PANELS SHALL BE REFLECTORIZED EXCEPT WHERE NOTED.

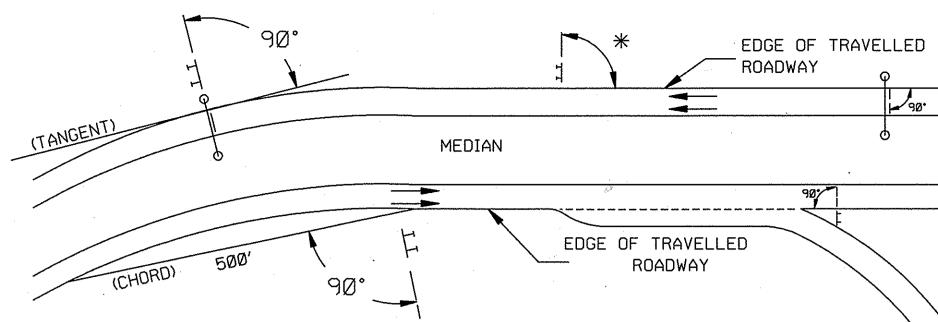
## SIGN LOCATIONS

1. GUIDE SIGNS ARE LOCATED ON THE PLANS BY DIMENSION TO SURVEY STATIONS, OR WHEN NECESSARY, TO IDENTIFIABLE PHYSICAL FEATURES. 2. ALL CHANGES IN THE LOCATIONS OF SIGNS AS SHOWN ON THE PLAN SHALL HAVE THE

#### EXISTING UTILITIES

THE ENGINEER DOES NOT WARRANT OR GUARANTEE THE ACCURACY OR COMPLETENESS OF UTILITY INFORMATION SHOWN ON THE PLAN, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING FACILITIES WHICH MIGHT BE AFFECTED BY THIS WORK OR HIS OPERATION.

# ORIENTATION OF SIGN FACES



\* UNDER 30 FEET FROM TRAVELLED ROADWAY TO NEAR EDGE OF SIGN - 93° OVER 3Ø FEET FROM TRAVELLED ROADWAY TO NEAR EDGE OF SIGN - 90°

#### ROADSIDE SIGNS

1. VERTICAL ALIGNMENT

POSITION PANEL SO FACE IS PLUMB.

2. HORIZONTAL ALIGNMENT (SEE DIAGRAM ABOVE)

A). ON STRAIGHT ROADWAY SECTIONS, ANGLE OF SIGN FACE TO ROADWAY VARIES WITH DISTANCE FROM TRAVELLED ROADWAY TO NEAR EDGE OF SIGN - SEE DIAGRAM.

B). ON THE INSIDE OF HORIZONTAL CURVES, POSITION SIGN SO FACE OF PANEL MAKES AN ANGLE OF 90° WITH A CHORD BETWEEN A POINT ON NEAR EDGE OF PAVEMENT AT SIGN LOCATION AND A POINT ON EDGE OF PAVEMENT 500' IN ADVANCE OF SIGN.

C). ON THE OUTSIDE OF HORIZONTAL CURVES, POSITION SIGN SO FACE OF PANEL IS AT RIGHT ANGLES TO THE TANGENT OF THE CURVE AT THE SIGN LOCATION.

D.) POSITIONING OF SIGNS AT GORES AND RAMP SEPARATIONS IS REFERRED TO THE NORMAL EDGE OF THE MAINLINE ROADWAY.

## OVERHEAD SIGNS

1. VERTICAL ALIGNMENT

POSITION PANELS FOR ALL OVERHEAD STRUCTURES SO THAT PANEL FACE IS PLUMB.

2. OVERHEAD SIGN STRUCTURES SHALL NOT BE ERECTED WITHOUT ATTACHING LUMINARIES SUPPORTS AND/OR SIGN.

3. HORIZONTAL ALIGNMENT

A). POSITION ALL OVERHEAD SIGNS SO THAT THE FACE OF THE PANEL IS AT RIGHT ANGLES TO THE NORMAL EDGE OF ROADWAY. IF ON A STRAIGHT ROADWAY SECTION.

B). POSITION ALL OVERHEAD SIGNS SO THAT THE FACE OF THE PANEL IS AT RIGHT ANGLES TO THE TANGENT OF THE CURVE AT SIGN LOCATION, IF ON A HORIZONTAL CURVE.

C). POSITIONING OF SIGNS AT GORES AND RAMP SEPARATIONS IS REFERRED TO THE NORMAL EDGE OF THE MAINLINE ROADWAY.

4. VERTICAL CLEARANCE

A), OVERHEAD SIGNS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 17'-9" FROM ROADWAY TO THE BOTTOM OF LIGHT FIXTURES. ALL LIGHT FIXTURES ARE TO BE AT THE SAME ELEVATION ONLY ON AESTHATIC STRUCTURES.

B). IF THE CONTRACTOR CANNOT OBTAIN 17'-9" (SEE 3A) CLEARANCE, HE IS TO CEASE WORK AND CONTACT THE PROJECT ENGINEER FOR FURTHER INSTRUCTIONS. THE PROJECT ENGINEER MAY CONTACT THE TRAFFIC ENGINEERING DIVISION FOR ASSISTANCE.

C). ON UNLIT OVERHEAD SIGNS, THE MINIMUM CLEARANCE TO BOTTOM OF SIGN: 20'-9".

## PROJECT REQUIREMENTS

1. ALL NEW SIGNS ON THIS PROJECT ARE TO HAVE NON-REFLECTIVE (BLACK COPY) OR HIGH-INTENSITY REFLECTIVE (ALL OTHER COLORS) SHEETING BACKGROUND AND COPY. REFLECTIVE SHEETING SHALL BE TYPE III ENCAPSULATED LENS REFLECTIVE ELEMENT MATERIAL.

2. ALL NEW EXTRUDED ALUMINUM PANELS ARE TO HAVE DEMOUNTABLE COPY.

3. ALL NEW SHEET ALUMINUM SIGNS ARE TO HAVE NON-DEMOUNTABLE COPY.

LONGEST DIMENSION

4. THE FOLLOWING MINIMUM THICKNESS SHALL BE USED FOR THE APPROPRIATE WIDTH OF SHEET ALUMINUM BLANKS.

48" (1.22 m) -----

#### MINIMUM THICKNESS 0.040" 0.063 GREATER THAN 12"(305 mm) TO 24"(610 mm)------------GREATER THAN 24" (610 mm) TO 36" (915 mm) ------0.080\*

PROJECT APPROVALS  APPROVALS ARE FOR SIGNING  SHEETS: SN-2.1 THRU SN-2.2  A TOTAL OF 2 SHEETS			
APPROVALS	REVISIONS		
Chery Schuler 12/13/00 TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION			
Tue Tuo 12/13/00		,	
ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION	, .		

DIRECTOR, OFFICE OF TRAFFIC & SAFETY

GREATER THAN 36" (915 mm) TO



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL NOTES & PROPOSAL ITEMS

MD 355/SHADY GROVE ROAD INTERSECTION IMPROVEMENTS

DRAWN BY:	F.A.P. NO.	SEE TITLE SHEET
CHECK BY:	S.H.A. NO.	M08205171
SCALE:	COUNTY	MONTGOMERY

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44 of 56